CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

QC-ABSTRACT

Name of Work:- Improvements to roads and drains in Kodigehalli and surrounding areas in ward no.12, Kodigehalli

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	Material	-	1	1	Cement
					Sand, Aggregates
2	Steel	0.68 Tonne	1	1	-
3	M20	7.56 Cum	2	2	Concrete Cube Compressive Strength
4	M10	3.96 Cum	1	1	Concrete Cube Compressive Strength
5	Slab 230mm	28.20Sqm	1	1	Compressive strength

Cubes	0-5 m^3	1set
	6-15 m^3	2set
	16-30 m^3	3set
	31-50 m^3	4 set
	Add 1set for every 50 Cum	

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/PV/12/2023-24 Date:15.03.2023

TEST REPORT ON CEMENT

Client	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore
Agency	Sri.P. Vishwanath, Contractor, Bengaluru.
Name of Work	Improvements to roads and drains in Kodigehalli and surrounding areas in ward no.12, Kodigehalli
Sample ID:	: Cement (Birla Super 53 grade OPC)
Sample Supplied by:	: AGENCY
Date of Manufacture:	: Feb - 2023
Date of Testing	: 13.03.2023 to 15.03.2023

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/PV/12/2023-24 Date 13.03.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore

Agency Sri.P. Vishwanath, Contractor, Bengaluru.

Name of Work Improvements to roads and drains in Kodigehalli and surrounding areas in ward no.12, Kodigehalli

Date of Testing 13.03.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	74	7.40	7.40	92.6	90-100
2.36	115	11.50	18.90	81.1	75-100
1.18	171	17.10	36.00	64.0	55-90
600 Micron	206	20.60	56.60	43.4	35-59
300 Micron	198	19.80	76.40	23.6	8-30
150 Micron	158	15.80	92.20	7.8	0-10

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Job No.: CACE/BBMP/PV/12/2023-24 Date 13.03.2023

TEST REPORT ON COARSE AGGREGATES

Client	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore
Agency	Sri.P. Vishwanath, Contractor, Bengaluru.
Name of Work	Improvements to roads and drains in Kodigehalli and surrounding areas in ward no.12, Kodigehalli
Date of Testing	13.03.2023
IS Code	: IS 383:2016
	: IS 2386 (Part 1):1963(RA 2011)
Material	: 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	221	4.4	4.4	95.6	95-100
10	2895	57.9	62.3	37.7	25-55
4.75	1685	33.7	96.0	4.0	0-10

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Job No.: CACE/BBMP/PV/12/2023-24 Date: 15.03.2023

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client		Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore
Agency		Sri.P. Vishwanath, Contractor, Bengaluru.
Name of Work		Improvements to roads and drains in Kodigehalli and surrounding areas in ward no.12, Kodigehalli
Sample Identification	:	10mm , TMT Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test	:	15.03.2023

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	TMT	10	0.619	515	605	18

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Job No.: CACE/BBMP/PV/12/2023-24 Date: 02.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore
Agency	Sri.P. Vishwanath, Contractor, Bengaluru.
Name of the work	Improvements to roads and drains in Kodigehalli and surrounding areas in
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{10}
Compressive Strength as on	: 29th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.04.2023	02.05.2023	8.154	265.8	11.81
2	03.04.2023	02.05.2023	8.002	258.2	11.48
3	03.04.2023	02.05.2023	8.169	269.1	11.96

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Job No.: CACE/BBMP/PV/12/2023-24 Date: 04.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore

Agency Sri.P. Vishwanath, Contractor, Bengaluru.

Name of the work Improvements to roads and drains in Kodigehalli and surrounding areas in

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.04.2023	04.05.2023	8.065	526.3	23.39
2	06.04.2023	04.05.2023	8.202	532.1	23.65
3	06.04.2023	04.05.2023	8.145	509.5	22.64

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Job No.: CACE/BBMP/PV/12/2023-24 Date: 08.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore

Agency Sri.P. Vishwanath, Contractor, Bengaluru.

Name of the work Improvements to roads and drains in Kodigehalli and surrounding areas in

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.04.2023	08.05.2023	8.154	536.5	23.84
2	10.04.2023	08.05.2023	8.202	524.8	23.32
3	10.04.2023	08.05.2023	8.163	526.0	23.38

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Job No.: CACE/BBMP/PV/12/2023-24 Date: 29.04.2023

PRECAST SLAB 230mm Thick(CORE) TEST REPORT

Client	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore
Contractor	:	Sri.P. Vishwanath, Contractor, Bengaluru.
Name of Work	:	Improvements to roads and drains in Kodigehalli and surrounding areas in ward no.12, Kodigehalli
No.of Sample Tested	:	03
Date of Testing	:	29.04.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	110.00	1.562	2232.10	1.22	0.916	128.50	20.20	21.81	19.98	24.98
2	90.00	110.00	1.589	2270.68	1.22	0.916	131.40	20.65	22.31	20.43	25.54
3	90.00	110.00	1.624	2320.70	1.22	0.916	129.10	20.29	21.92	20.08	25.09

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